论著

I a 1基因hs1,2 区B等位基因与I g A 肾病的易感性相关

古宏标^{1,2},李幼姬³,杜勇³,黄玮俊¹,李彩霞¹,陈素琴¹,王一鸣^{1△} 1中山大学中山医学院医学遗传教研室,3中山大学附属第一医院肾脏内科, 广东 广州 510080; 2广东药学院, 广东 广州 510224

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[摘要] 目的:研究Ia1 hs1,2 VNTR多态性与我国IgA肾病的相关关系。 方法: 采集419例肾活检证实的 IgA肾病患者及其一级亲属、条件相当的201例健康志愿者血样,提取基因组DNA。用PCR产物直接电泳法鉴定 la1 hs1,2 VNTR基因型,采用以家庭为基础的传递/不平衡分析(TDT)和单倍型相对危险度(HRR),以及病 ▶复制索引 例-对照研究分析Ia1 hs1,2 VNTR多态性与我国IgA肾病的相关关系。 结果: ① TDT分析结果显示Ia1 hs1,2| VNTR B等位基因从杂合子父母向患者传递的频率显著高于预期值(101 Trios, χ2=6.818, P<0.01, 扩展TDT 分析也得到相同结果(164家庭, X2=7.583, P<0.01)。②与TDT结果一致,HRR分析同样显示Ia1 hs1,2 VNTR B等位基因的过度传递 (P<0.05, x2=4.122, HRR=1.180), 而BB基因型具有更强的患病倾向 (P< 0.05, x2=4.411, OR=1.538)。③病例-对照研究显示IgA肾病组B 等位基因频率显著高于正常对照组 (X2=6.968, P<0.05)。 结论: Ia1 hs1,2 VNTR基因多态性与我国IgA肾病患者的易感性相关。 肾小球肾炎,IGA; 免疫球蛋白A; 增强子元件(遗传学); 可变数量串联重复; 多态性现象(遗传 学); 传递不平衡分析

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B allele in Ia1 hs1,2 VNTR region is associated with IgA nephropathy

GU Hong-biao^{1,2}, LI You-ji³, DU Yong³, HUANG Wei-jun¹, LI Cai-xia¹, CHEN Sugin¹, WANG Yi-ming¹

1Department of Medical Genetics, 3Department of nephrology, First Affiliated Hospital, Sun Yat-sen University, Guangzhou 510080, China; 2Guangdong College of Pharmacy, Guangzhou 510224, China

Abstract

AIM: To investigate the relationships between Ia1 hs1,2 VNTR polymorphism and IgA nephropathy. METHODS: Four hundred and ninteen patients with IgA nephropathy and their first-degree relatives were recruited. Two hundred and one sex and age-matched normal Chinese Han volunteers were also recruited as controls. After extracting genomic DNA, the VNTR genotypes of Ia1 hs1,2 region were determined by PCR and electrophoresis, and the results were analyzed by transmission disequilibrium test (TDT) and haplotype relative risk (HRR) in the families, and Chi-Square test in the case-control analysis. RESULTS: ① TDT analyses showed that B allele of the Ia1 hs1,2 VNTR region was significantly more transmitted from heterozygous parents to patients than expected (101 Trios, χ 2=6.818, P<0.01), extended TDT produced the same results (164 families, χ 2=7.583, P<0.01). ② Consistent with the TDT results, HRR also showed that B allele was over-transmitted to patients (P < 0.05, $\chi 2 = 4.122$, HRR=1.180), and the BB genotype conferred a higher risk of developing the disease (P < 0.05, $\chi 2 = 4.411$, OR=1.538). ③ The case-control study indicated that the B allele had a higher frequency in the IgA nephropathy group (χ 2=6.968, P<0.05). CONCLUSION: B allele in Ia1 hs1,2 VNTR region is associated with susceptibility to IgA nephropathy.

Key words Glomerulonephritis IGA; Immunoglobulin A Enhancer elements (genetics) Variable numbers of tandem repeats; Polymorphism (genetics) Transmission/Disequilibrium Test

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通讯作者 王一鸣 ywzhong@hotmail.com